APPENDIX G TIRE LIFE AND TIRE WEAR FACTORS

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SECTION I. TIRE WEAR FACTORS

The tire wear factors used in this pamphlet are listed in appendix D. The "useful life" of a new tire is the product of Condition Factors (CF) from group A through group E multiplied by the Wheel Position Factor (WPF), and for drive tires only, the Grade Factor (GF). These factors provide a percentage reduction to the maximum tire life. See chapter 2 for tire methodology.

Drive Tires: Useful Tire Life = (CF x WPF x GF)
All Other Tires: Useful Tire Life = (CF x WPF)

EXAMPLE

(Condition Factors, Wheel Position Factors, and Grade Factor are from GMC Terex Guide.)

Factors are specifically for a rear dump wagon.

Condition Factors (CF):		<u>Average</u>	<u>Severe</u>		
A B C D E	Maintenance Speeds Curves Surface Condition Loads	1.00 0.80 1.00 0.90 0.90	1.00 0.85 0.90 0.70 0.80		
CF	Product of the factors	0.65	0.43		
	$(A \times B \times C \times D \times E)$				
Wheel Position Factors (WPF):					
WPF-FT	Front Tire (FT)	0.90	0.90		
WPF-DTR	Drive Tire (DT) - Rear Dump	0.70	0.70		
WPF-TT	Trailing Tire (TT)	1.00	1.00		
Grade Factor (GF):					
GF	Grade Factor (Drive Tires Only)	0.085	0.75		

APPENDIX G TIRE LIFE AND TIRE WEAR FACTORS (Continued)

SECTION I. TIRE WEAR FACTORS (Continued)

EXAMPLE (Continued)

<u>Average</u>	<u>Severe</u>
0.59	
	0.39
0.39	
	0.22
0.65	
	0.43
	0.59

SECTION II. MAXIMUM TIRE LIFE

Maximum tire life is used in the formula to determine tire wear cost and is located in appendix F by type of tire.